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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/712,286 11/15/2000		Hongyong Zhang	0756-2224	4444	
31780	7590 07/07/2003 ·				
ERIC ROBI	NSON	EXAMINER			
PMB 955 21010 SOUTH		MUNSON, GENE M			
POTOMAC FALLS, VA 20165			ART UNIT	PAPER NUMBER	
			2811		
			DATE MAILED: 07/07/2003	<b>,</b>	

Please find below and/or attached an Office communication concerning this application or proceeding.

the

	Application No. 712, 286	Applicant(s)	ZHANG	ETA
Office Action Summary	Examiner	NOAN	Group Art Unit	
	G. MUNSON		2811	ì

-The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address-

## **Period for Reply**

OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent

term adjustment. See 37 CFR 1.704(b).	, was a subject of the subject of th		
Status			
■ Responsive to communication(s) filed on// June 2003			
This action is FINAL.	·		
<ul> <li>Since this application is in condition for allowance except for formal matter accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O</li> </ul>	ers, prosecution as to the merits is closed in .G. 213.		
Disposition of Claims			
$\bigcirc$ Claim(s) $1-4, 6-9, 21-63$	is/are pending in the application.		
Of the above claim(s) 21 - 55	is/are withdrawn from consideration.		
□ Claim(s)	is/are allowed.		
$\boxtimes$ Claim(s) $1-4, 6-9, 56-63$	is/are rejected.		
□ Claim(s)	is/are objected to.		
☐ Claim(s)	are subject to restriction or election		
Application Papers	requirement		
☐ The proposed drawing correction, filed on is ☐ app			
☐ The drawing(s) filed on is/are objected to by the Exa	aminer		
☐ The specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)–(d)			
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. §	119 (a)–(d).		
☐ All ☐ Some* ☐ None of the:			
☐ Certified copies of the priority documents have been received.			
☐ Certified copies of the priority documents have been received in Applic	ation No		
☐ Copies of the certified copies of the priority documents have been rece	ived		
in this national stage application from the International Bureau (PCT Ru	ıle 17.2(a))		
*Certified copies not received:	•		
Attachment(s)			
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)	☐ Interview Summary, PTO-413		
☐ Notice of Reference(s) Cited, PTO-892	☐ Notice of Informal Patent Application, PTO-152		
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ Other		
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Claims 21-55 are withdrawn from consideration as being directed to a non-elected invention.

The present invention has been constructively elected by original presentation for prosecution on the merits, as noted in the last Office action, paper No. 13.

Applicants are required to cancel the non-elected claims as part of a complete response to this office action. Note that cancellation of the non-elected claims would not preclude the later filing of a divisional application on the non-elected invention (35 U.S.C. 120, 121).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and

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invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 2, 4, 6, 7, 9, 56, 57, 59-61 and 63 are rejected under 35 U.S.C. 102 as unpatentable as shown by Yamamoto et al. See Figure 3. The "bias terminal" and "ground" potential (claims 1, 6, 56, 60) read on the terminal with potential VB.

Claims 3, 8, 58 and 62 are rejected under 35 UC 103 as unpatentable over Yamamoto et al, as in the above rejection, considered together with Ozawa. It would have been obvious to use a shift register as in Ozawa (Figure 1A) to implement a pulse generating circuit 106 as in Yamamoto et al (Figure 3).

Claims 1-4 and 56-59 are rejected under 35 U.S.C. 102 as unpatentable as shown by Morozumi et al. See Figures 1, 3, 12. The "bias terminal" and "ground" potential (claims 1, 56) read on a terminal in Figures 3, 12 which corresponds to a ground terminal in Figure 1; "first" and "second" electrodes read on endpoint contacts to "optical sensor" 18, 109.

Claims 1-4 and 56-59 are rejected under 35 U.S.C. 103 as unpatentable over Morozumi et al. It would have been obvious to provide a bias to a terminal in a device as in Morozumi et al (Figures 3, 12) in order to provide a ground potential as in Figure 1.

The references are of record.

The arguments in the response, filed 11 June 2003, have been considered but are not persuasive. Contrary to the response (page 2), claims 1, 6, 56 and 60 allow the "bias terminal" and "ground" potential to read on the same terminal, such as terminal 4007 in Figure 4 of this application.

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Since the response does not appear to maintain that present claims preclude a terminal 4007 as in the embodiment of Figure 4 of this invention, so present claims encompass the devices of Yamamoto et al and Morozumi et al as well.

No claim is allowed.

This action is **FINAL**.

This action is a **final rejection** and is intended to close the prosecution of this application.

Applicant's reply under 37 CFR 1.113 to this action is limited either to an appeal to the Board of Patent Appeals and Interferences or to an amendment complying with the requirements set forth below.

If applicant should desire to appeal any rejection made by the examiner, a Notice of Appeal must be filed within the period for reply identifying the rejected claim or claims appealed. The Notice of Appeal must be accompanied by the required appeal fee of appropriate amount.

If applicant should desire to file an amendment, entry of a proposed amendment after final rejection cannot be made as a matter of right unless it merely cancels claims or complies with a formal requirement made earlier. Amendments touching the merits of the application which otherwise might not be proper may be admitted upon a showing a good and sufficient reasons why they are necessary and why they were not presented earlier.

A reply under 37 CFR 1.113 to a final rejection must include the appeal from, or cancellation of, each rejected claim. The filing, whichever is longer, of an amendment after final rejection, whether or not it is entered, does not stop the running of the statutory period for reply to the final rejection

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unless the examiner holds the claims to be in condition for allowance. Accordingly, if a Notice of

Appeal has not been filed properly within the period for reply, or any extension of this period obtained

under either 37 CFR 1.136(a) or (b), the application will become abandoned.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the

date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to G. Munson at telephone

number (703) 308-4925 or 0956.

Munson

7/02/03

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**GROUP ART UNIT 283/**